



# GERONTOLOGY RESEARCH CENTRE

SFU Gerontology Research Centre

&

Department of Gerontology

Publications and Activities in the Area of:

**“Technology and Aging”**



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SIMON FRASER UNIVERSITY  
THINKING OF THE WORLD

## **Technology and aging**

Research, development and evaluation of technologies to support independent living and enhance quality of life

## **Publications and activities**

The GRC and has a long-standing involvement in the area of technology and aging and has been involved in projects on

- Research into the needs and requirements of older people for assistive technologies, particularly in respect to information and communication technologies (ICTs)
- Technology and people with dementia
- Development of prototype systems and technologies
- Development of methodologies for user-driven research
- Evaluation of devices and systems in field trials
- Theoretical and conceptual development
- Inequalities in access and use of systems (the Digital Divide)
- Social and psychological perspectives on the role of technology in everyday life
- Knowledge transfer and the dissemination of research findings, for example the GRC will be hosting the 7<sup>th</sup> World Congress on Gerontechnology in Vancouver in May 2010

The GRC is a partner in the EU-funded project SOPRANO (<http://www.soprano-ip.org/>). The project is designing and developing innovative, context-aware, smart services with natural and comfortable interfaces for older people at affordable cost, meeting requirements of users, family and care providers and significantly extending the time they can live independently.

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## **SECTION I:**

### **1. Books**

- Bardram, J., Mihailidis, A., & Wan, D. (Eds.). (2006). *Pervasive computing in healthcare*. Boca Raton, FL.: Taylor & Francis.
- Gutman, G.M. (Ed). (1998). *Technology innovation for an aging society: Blending research, public and private sectors*. Vancouver: Gerontology Research Center, Simon Fraser University.
- Mihailidis, A., Boger, J., Kautz, H., & Normie, L. (Eds.) (2008). *Technology and Aging: Selected Papers from the 2007 International Conference on Technology and Aging - Volume 21 Assistive Technology Research Series (Assistive Technology Research)*. Sherbrooke, QC: IOS Press.

### **2. Technical Reports**

- Gutman, G.M., & Love, T. (2008, January). *Towards more elder friendly hospitals: Final report – Studies 3b and 3c.* [Report submitted to Fraser Health Geriatric Clinical Service Planning and Delivery Team]. Vancouver: Gerontology Research Centre, Simon Fraser University.
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- Savage R. (2009). *Exploitation Brief – Canada (Facilitators and barriers, exploitation potential in different areas)*. Contribution to 3.2.7 - SOPRANO: Service Oriented Programmable Smart Environments for Older Europeans: Yearly exploitation plan and business models. [Internal Deliverable D6.3.2.2]. 33.
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### **3. Journal articles**

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- LoPresti, E.F., Mihailidis, A., Kirsch, N. (2004). Assistive technology for cognitive rehabilitation: State of the art. *Neuropsychological Rehabilitation*, 14 (1/2), 5-39.

- Orpwood, R., Sixsmith, A., Torrington, J., Chadd, J., Gibson, G., & Chalfont, G. (2007). Designing technology to support quality of life of people with dementia. *Technology and Disability*, 19(2/3), 103-112.
- Savage, R., Campo, M., Yon, Y., Wilson, A., Kahlon, R., & Sixsmith, A. (2009). Market potential for ambient assisted living technology: The case of Canada. *Lecture Notes in Computer Science* 5597, 57-65.
- Sixsmith, A. (2009). Understanding the user of ambient technologies. *Lecture Notes in Computer Science* 5612, 511-519.
- Sixsmith, A., Orpwood, R., & Torrington, J. (2010). Developing a music player for people with dementia. *Gerontechnology*, 9(3), 421-427.
- Watzke, J.R., & Kemp B. (1992) Safety for older adults: the role of technology and the home environment. *Topics in Geriatric Rehabilitation*, 7 (4), 9-21.
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- Watzke, J.R., & Wister, A.V. (1993). Resident location monitoring technology in long-term care facilities: An analysis of care staff attitudes. *Journal of Gerontological Nursing*, 19, 23-29.

#### **4. Book Chapters & Conference Proceedings**

- Abrahamsohn, G., Gutman, G.M. & Wister, A.V. (1994). Necessary elements of a cost-effectiveness analysis of technical aids for the elderly. In G. Gutman & A. Wister (Eds.) *Progressive accommodation for seniors: Interfacing shelter and services* (pp.197-210). Vancouver: Simon Fraser University Gerontology Research Centre.
- Beringer, R., Sixsmith, A., Campo, M., Brown, J., & McCloskey, R. (2011). The "acceptance" of Ambient Assisted Living: Developing an alternative methodology to this limited research lens. *Lecture Notes in Computer Science* 6719, 161-167.
- Bierhoff, I., Sproll, S., Müller, S., Avatangelou, E., Delaney, S., Byrne, P., Sixsmith, A.J., Kremen, P., Kouba, Z., Goossen, B., & Panis P. (2010). Making user-centred design a reality: Experiences from the NETCARITY and SOPRANO project [abstract]. *Gerontechnology*, 9(2), 134.
- Brink, S. (1994). Bridging the technology gap – The links between research, development, production and policy for products supporting independent living. In G. Gutman & A. Wister (Eds.) *Progressive accommodation for seniors: Interfacing shelter and services* (pp.211-222). Vancouver: Simon Fraser University Gerontology Research Centre.
- Gutman, G.M. (1995). The role of gerontology research centres in developing and marketing information and communication technology to older adults and to persons with disabilities. In: *Proceedings Persons with disabilities and older adults: How to capitalize on a growing market* (pp. 41-54). Laval, Quebec: Centre d' innovation en technologies de l'information (CITI).
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- Gutman, G.M. (1998). Technological approaches to management of "problem" behaviours in home and institutional settings. In G. Gutman (Ed.), *Technology Innovation for an Aging Society: Blending Research, Public and Private Sectors* (pp. 51-67). Vancouver: Gerontology Research Centre, Simon Fraser University.
- Gutman, G.M. (2003). Gerontechnology and the home environment. In N. Charness & W.K. Schaie (Eds.) *Impact of Technology on Successful Aging* (pp251-261). New York: Springer Publishing Company.
- Gutman, G.M., Gorr, P., & Swan, J. (2010). The role of technology in emergency preparedness and response for seniors: Lessons learned and opportunities for innovation [abstract]. *Gerontechnology*, 9(2), 94.
- Gutman, G.M., Jones, Y., Walji, M., Clark Scott, M.A. (2001). Space efficient universal design innovations [abstract]. *Gerontology*, 47 (supp.1), 36.
- Gutman, G.M., Robinovitch, S.N., Marzencki, M., Menon, C., Livingston, N., & Beattie, B.L. (2010). Falls prevention, exoskeletons and wearable sensors: Gerontechnology R & D in British Columbia [abstract]. *Gerontechnology*, 9(2), 100.
- Gutman, G.M., & Symes, B. (2010). Building research capacity through web collaboration: The BCNAR experience [abstract]. *Gerontechnology*, 9(2), 101.
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- Hwang E., Park A., Lee B., Spicer V., & Sixsmith A.J. (2010). Spatial behavior of older adults in real and virtual environments [abstract]. *Gerontechnology*, 9(2), 221.
- Jutai, J., Demers, L., Mortenson, W.B., & DeRuyter, F. (2010). Measuring the effectiveness of assistive technology in community and home environments: capturing the perspectives of users and caregivers. [abstract]. *Gerontechnology*, 9(2), 116.
- Marzencki, M., Zajiczek, L., Kaminska, B., & Sixsmith, A. (2010). Device-less capacitive indoors localization and activity tracking system," *NEWCAS Conference (NEWCAS), 2010 8th IEEE International*, pp.113-116.  
<http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=5603716&isnumber=5603706>
- Mortenson W. (2010). The ethics of gerontechnology: From intervention study to implementation in practice [abstract]. *Gerontechnology*, 9(2), 142.
- Mortenson, W., Auger, C., Smith, C., Rushton, P., & Viswanathan, P. (2010). Wheelchair mobility in older adults. Are we ready to roll? [abstract]. *Gerontechnology*, 9(2), 137.
- Mortenson W., Demers L., Fuhrer M., DeRuyter F., Lenker J., & Jutai J. (2010). Impact of an assistive technology intervention on users and their caregivers: Initial findings [abstract]. *Gerontechnology*, 9(2), 118-119.
- Mortenson W., Miller W.C., Oliffe J.L., & Backman C.L. (2010). Wheelchair mobility among facility residents: Perils, pitfalls and promises [abstract]. *Gerontechnology*, 9(2), 137-138.
- Mortenson W., & Sixsmith A. (2010). Gerontechnology and residential care: Reducing or reproducing disability among individuals with cognitive impairment [abstract]? *Gerontechnology*, 9(2), 144.
- Mueller, S., Delaney, S., Meyer, I., Sixsmith, A., Bierhoof, I., & Sproll, S. (2011). Iterative user involvement in ambient assisted living research and development processes: Does it really make a difference? In C. Rocker & M. Ziefle (Eds.), *E-health, assistive technologies and applications for assisted living: Challenges and solutions*. Hershey, PA: Medical Information Science Reference.

- Mueller, S., Santi, M., & Sixsmith, A. (2008). Eliciting user requirements for Ambient Assisted Living: Results of the SOPRANO project. In P. Cunningham & M. Cunningham (Eds.), *Collaboration and the knowledge economy: Issues, applications, case studies, part 1* (pp. 81-88). Amsterdam/Berlin: IOS Press.
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- Paris-Seeley, N., Raschke, S., Watzke, J.R., Jones, Y., & Halsted, N. (2001). Evaluation of transfer devices to reduce the risk of musculoskeletal injury to home care workers [abstract]. *Gerontology*, 47 (Suppl.1), 522.
- Roush, R.E., & Gutman, G.M. (2010). Using preventive gerontechnological systems to monitor residents' behavior for health services during emergencies [abstract]. *Gerontechnology*, 9(2), 92.
- Roush, R.E., Hirst, S., Mazurik, L., & Gutman, G.M. (2010). Expanding the technology safety envelop for seniors to include disaster resilience [abstract]. *Gerontechnology*, 9(2), 91.
- Savage, R., Campo, M., Yon, Y., Wilson, A., Kahlon, R., & Sixsmith, A. (2009). Market potential for ambient assisted living technology: The case of Canada. In M. Mokhtari et al. (Eds.), *ICOST 2009, LNCS 5597*, 57-65.
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- Sixsmith, A., & Gutman, G.M. (2010). Welcome to ISG's 7th World Conference on Gerontechnology. *Gerontechnology*, 9(2), 63.
- Sixsmith, A., Hammond, M., & Gibson, G. (2008). Quality of life and dementia. In M. Vaarama, R. Pieper & A. Sixsmith (Eds.), *Care related quality of life in old age* (pp. 217-233). New York: Springer.
- Sixsmith, A., Mueller, S., Lull, F., Klein, M., Bierhoff, I., Delaney, S., Byrne, P., Sproll, S., & Savage, R. (2010). A user-driven approach to developing Ambient Assisted Living systems for older people: The SOPRANO Project. In J. Soar, R. Swindell & P. Tsang (Eds.), *Intelligent technologies for bridging the grey digital divide*. Hershey, PA: Information Science Reference.
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- Vaarama, M., Pieper, R., & Sixsmith, A. (2008). The general framework and methods of the Care Keys research. In M. Vaarama, R. Pieper & A. Sixsmith (Eds.), *Care related quality of life in old age* (pp. 3-18). New York: Springer.
- Vaarama, M., Pieper, R., Frommelt, M., Muurinen, S., Sixsmith, A., Hammond, M., & Ljunggren, G. (2008). The concept of quality in long-term care. In M. Vaarama, R. Pieper & A. Sixsmith (Eds.), *Care related quality of life in old age* (pp. 102-124). New York: Springer.
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- Virone, G., & Sixsmith, A. (2008). Toward information systems for ambient assisted living. Proceedings of the 6th International Conference of the International Society for Gerontechnology, June 4-7, 2008. Pisa, Tuscany, Italy.
- Watzke, J.R. (1994). Personal response systems: Canadian data on subscribers and alarms. In G. Gutman & A. Wister (Eds.) Progressive accommodation for seniors: Interfacing shelter and services (pp.147-166). Vancouver: Simon Fraser University Gerontology Research Centre.
- Watzke, J.R., & Birch, G. (1994). Older adults' response to automated environmental control devices. In G. Gutman & A. Wister (Eds.) Progressive accommodation for seniors: Interfacing shelter and services (pp.167-180). Vancouver: Simon Fraser University Gerontology Research Centre.
- Watzke, J.R., Gutman, G.M., & Wister, A.V. (1994). Emergency medical alert (EMA): Findings from a large Canadian study [abstract]. *Gerontologist*, 34 (Special Issue 1), 71.

## **5. Newsletter, Newspaper and Magazine Articles**

- Carmichael, B. (2007). Bright eye-deas to help diabetes management. *Seniors' Housing Update*, 16(2).
- Carmichael, B. (2007). E.K.G. Phone Home! *Seniors' Housing Update*, 16(2).
- Edge, M., Taylor, B., Dewsbury, B., & Groves, M. (2000). The potential for 'smart home' systems in meeting the care needs of older persons with disabilities. *Seniors' Housing Update*, 10(1), 6-7.
- Groves, M. (2002). The changing location of long term care: The seamless integration of technology-enhanced health care in the home and community. *Seniors Housing Update*, 11(1), 1-2.
- Groves, M. (2002). The Dr. Tong Louie Living Laboratory. *Seniors Housing Update*, 11(1), 20.
- Gutman, G.M. (1999). Technology innovation for an aging society: Application to environmental design. *GRC News*, 18(1), 3-5, 15.
- Mortenson, W.B. (2011). The impact of technology on informal caregivers. *GRC News*, 30(1), 10-11.
- Savage R. (Ed.) (2009). SOPRANO: Service Oriented Programmable Smart Environments for Older Europeans: Newsletter, Issue three.
- Sixsmith, A. (2008). Using technology to help older people live independently: THE SOPRANO PROJECT. *Seniors' Housing Update*, 17(1).
- Virone, G. (2008). Circadian activity rhythms & technology and aging. *Seniors' Housing Update* 17(1).

## **6. Audio-visual Materials**

- Watzke, J.R. (1994). *The Living Lab*. Vancouver: Gerontology Research Centre, Simon Fraser University (Video).

## **7. Conference Presentations**

- Beringer, R., Sixsmith, A., Campo, M., Brown, J., & McCloskey, R. (2011, June). The "acceptance" of Ambient Assisted Living: Developing an alternative methodology to this limited research lens. Paper

presented at the 9th International Conference on Smart Homes and HealthTelematics, iCOST 2011, June 20-22, 2011, Montreal, Canada.

- Bierhoff, I., Sproll, S., Müller, S., Avatangelou, E., Delaney, S., Byrne, P., Sixsmith, A.J., Kremen, P., Kouba, Z., Goossen, B., & Panis P. (2010, May). Making user-centred design a reality: Experiences from the NETCARITY and SOPRANO project. Presentation at the 7th World Conference of the International Society for Gerontechnology (ISG), 27-29 May 2010, Vancouver, BC.
- Campo, M., & Beringer, R. (2011, March). Untapped potential? Exploring the possibilities for older adult education within the realm of ambient assisted living. Presentation to "Imagining an old age with Gerontechnology: Educational implications of new technologies" (J. Brown (Convener)) at the 37th Annual Association for Gerontology in Higher Education (AGHE), March 17-20, 2011, Cincinnati, OH.
- Demers, L., Mortenson, W., Plante, M. Raymond, M-H., & CATOR (2010, October). Impacts des aides techniques auprès des usagers et de leurs proches-aidants: Résultats préliminaires Poster session presented at the Congrès International Francophone de Gériatrie et Gérontologie, Nice, France.
- Giesbrecht, E., Miller, W.C., & Mortenson, B. (2010, December). Prevalence and predictive factors of wheelchair seating need among long term care residents. Poster session presented at the 39th Annual Scientific and Educational Meeting, Canadian Association on Gerontology, December 2-4, Montreal, QC.
- Gutman, G.M., Gorr, P., & Swan, J. (2010, May). The role of technology in emergency preparedness and response for seniors: Lessons learned and opportunities for innovation. Presentation at the 7th World Conference of the International Society for Gerontechnology (ISG), 27-29 May 2010, Vancouver, BC.
- Gutman, G.M., Robinovitch, S.N., Marzencki, M., Menon, C., Livingston, N., & Beattie, B.L. (2010, May). Falls prevention, exoskeletons and wearable sensors: Gerontechnology R & D in British Columbia. Presentation at the 7th World Conference of the International Society for Gerontechnology (ISG), 27-29 May 2010, Vancouver, BC.
- Gutman, G.M., & Symes, B. (2010, May). Building research capacity through web collaboration: The BCNAR experience. Presentation at the 7th World Conference of the International Society for Gerontechnology (ISG), 27-29 May 2010, Vancouver, BC.
- Hwang E., Park A., Lee B., Spicer V., & Sixsmith A.J. (2010, May). Spatial behavior of older adults in real and virtual environments. Presentation at the 7th World Conference of the International Society for Gerontechnology (ISG), 27-29 May 2010, Vancouver, BC.
- Kelson, E., & Chaudhury, H. (2008, November). Sustaining personhood in dementia care: Exploring staff perception of residents' visual life stories. Paper presented at the "Shared Histories: Enhancing Reminiscence through Multimedia Technologies" symposium at the 61st Annual Scientific Meeting of the Gerontological Society of America, November 21-25, 2008, National Harbor, MD.
- Lovegreen, L.D. (2008, May). Have older adults joined the "Age of Technology"? Invited speaker at the Intertic Symposium, Université du Québec à Montréal, Montreal, QC.
- Miller, W.C., Mortenson, W.B., Claudine, A., & Smith, C. (2009, June). Wheeled mobility in older adults: wheeling into the future. Paper presented at the Canadian Occupational Therapy Association National Conference, Ottawa, ON.

- Mortenson W. (2010, May). The ethics of gerontechnology: From intervention study to implementation in practice. Presentation at the 7th World Conference of the International Society for Gerontechnology (ISG), 27-29 May 2010, Vancouver, BC.
- Mortenson, W.B. (2011, May). Assistive technology and climate change. Paper presented at the 20th John K. Friesen Conference, Simon Fraser University, May 25-26, 2011, Vancouver, BC.
- Mortenson W., Demers L., Fuhrer M., DeRuyter F., Lenker J., & Jutai J. (2010, May). Impact of an assistive technology intervention on users and their caregivers: Initial findings. Presentation at the 7th World Conference of the International Society for Gerontechnology (ISG), 27-29 May 2010, Vancouver, BC.
- Mortenson, W.B., Demers, L., Jutai, J., Fuhrer, F., Lenker, J., DeRuyter, F. (2010, October). Impacts of assistive technology interventions on informal caregivers of adults with chronic physical impairments: A systematic review. Paper presented at the American Congress of Rehabilitation Medicine-American Society of Neurorehabilitation Conference, Montreal, PQ.
- Mortenson, W.B., Demers, L., Roy, L., Lenker, J., Jutai, J., Fuhrer, M., Deruyter, F. (2010, June). Efficacy of a user-caregiver assistive technology intervention: Preliminary results. Paper presented at the Canadian Association of Occupational Therapists National Conference, Halifax, NS.
- Mortenson, W.B., Miller, W.C., Backman, C.L. & Oliffe, J.L. (2010, May). Predictors of the frequency of engagement in occupation among long-term care residents who use wheelchairs as their primary means of mobility. Paper presented at the 15th World Congress of the World Federation of Occupational Therapy, Santiago, Chile.
- Mortenson W., Miller W.C., Oliffe J.L., & Backman C.L. (2010, May). Wheelchair mobility among facility residents: Perils, pitfalls and promises. Presentation at the 7th World Conference of the International Society for Gerontechnology (ISG), 27-29 May 2010, Vancouver, BC.
- Mortenson W., & Sixsmith A.J. (2010, May). Gerontechnology and residential care: Reducing or reproducing disability among individuals with cognitive impairment? Presentation at the 7th World Conference of the International Society for Gerontechnology (ISG), 27-29 May 2010, Vancouver, BC.
- Roush, R.E., & Gutman, G.M. (2010, May). Using preventive gerontechnological systems to monitor residents' behavior for health services during emergencies. Presentation at the 7th World Conference of the International Society for Gerontechnology (ISG), 27-29 May 2010, Vancouver, BC.
- Savage, R.M., Sixsmith, A.J., Campo, M., Yon, Y., Wilson, A., & Kahlon, R. (2009, July). An examination of the market potential for ambient assisted living technology in Canada. Poster session presented at the 19th World Congress, International Association of Gerontology and Geriatrics, July 5-9, 2009, Paris, France.
- Savage, R., Yon, Y., Campo, M., Wilson, A., Kahlon, R., & Sixsmith, A. (2009, July). Market potential for ambient assisted living technology: The case of Canada. Paper presented at the 7th International Conference on Smart Homes and Health Telematics, ICOST 2009, July 1-3, 2009, Tours, France.
- Savage, R., Sixsmith, A., & Campo, M. (2009, September). The role an ambient assisted living system may play in the delivery of fair and efficient home and health care in rural Canada. Paper presented at the 2nd Annual BC Rural and Remote Health Research Network Conference, 28-29 September 2009, Prince George, BC.
- Savage, R.M., Sixsmith, A.J., Campo, M., Yon, Y., Wilson, A., & Kahlon, R. (2009, July). An examination of the market potential for ambient assisted living technology in Canada. Poster session presented at the 19th World Congress, International Association of Gerontology and Geriatrics, July 5-9, 2009, Paris, France.

- Sixsmith, A. (2007, November). Technologies to enhance quality of life for people with dementia. Paper presented at 60th Annual Scientific Meeting of the Gerontological Society of America, November 16-20, 2007, San Francisco, CA.
- Sixsmith, A. (2008, February). Emerging technologies: Making them relevant for older people. Paper presented at the Intensive Program on Measuring Outcomes of Assistive Technologies at the International Conference on Aging, Disability and Independence (ICADI), February 20-23, 2008, St. Petersburg, FL.
- Sixsmith, A. (2008, February). SOPRANO: Service Oriented Programmable Smart Environments for Older Europeans. Paper presented at the International Conference on Aging, Disability and Independence (ICADI), February 20-23, 2008, St. Petersburg, FL.
- Sixsmith, A. (2009, July). Developing user-driven approaches to research and development for ambient technologies. Paper presented at the 19th World Congress, International Association of Gerontology and Geriatrics, July 5-9, 2009, Paris, France.
- Sixsmith, A. (2009, July). Understanding the older user of ambient technologies. Paper presented at the 13th International Conference on Human-Computer Interaction, July 19-24, 2009, San Diego, CA.
- Sixsmith, A. (2011, May). Technology solutions for seniors in a time of climate change. Paper presented at the 20th John K. Friesen Conference, Simon Fraser University, May 25-26, 2011, Vancouver, BC.
- Sixsmith, A., Barnes, N., Bhachu, A., Curry, D., & Egan, B. (2009, July). Using technology to manage people with chronic illnesses: Results of the SAPHE project. Paper presented at the 19th World Congress, International Association of Gerontology and Geriatrics, July 5-9, 2009, Paris, France.
- Sixsmith, A., Mueller, S., Lull, F., Klein, M., Bierhoff, I., Delaney, S., Byrne, P., & Savage, R. (2009, July). SOPRANO: An ambient assisted living system for supporting older people at home. Paper presented at the 7th International Conference on Smart Homes and Health Telematics, ICOST 2009, July 1-3, 2009, Tours, France.
- Woolrych, R. (2011, May). The role of telecare in supporting formal carers. Paper presented at the 20th John K. Friesen Conference, Simon Fraser University, May 25-26, 2011, Vancouver, BC.

## **8. Materials in Electronic Format**

- Mihailidis, A., Cockburn, A., & Longley, C. (2005). The acceptability of home monitoring technology by baby boomers and older adults. 28th Annual Rehabilitation Engineering and Assistive Technology Society of North America (RESNA) conference proceedings, June 23 –27, 2005, Atlanta, GA. [CD-ROM].

## **SECTION II: THESES**

- Shintani, A.** (2004). Benefits and limitations of a reminder device for older adults with memory loss. M.A. Project, Department of Gerontology (Supervisors: G. Gutman).
- Sinden, D.** (2008). A comparative analysis of internet health information use between Canadian baby boomers and older adults. M.A. Thesis, Department of Gerontology (Supervisors: A. Wister).